

AMENDMENTS TO THE CLAIMS

Claims 1-38 were pending at the time of the Office Action.

Claims 1-19, 28-29, 35-36, and 38 are amended.

Claim 32 is canceled.

Claims 1-31 and 33-38 remain pending.

1. (Currently Amended) A computer readable storage medium encoded with a first data structure, comprising:

a parameter definition for at least one input parameter, the parameter definition being configured to enable identification of an appropriate input for the at least one input parameter, wherein the parameter definition is a declared property in a declared ~~created via a class declaration within of the~~ first data structure; and

an instruction-based mechanism configured to use the parameter definition to identify the appropriate input for the at least one input parameter from information included in an input source, the input source comprising at least one pipelined live object outputted by a second data structure that is identical to the first data structure,

wherein the instruction-based mechanism is further configured to apply one or more directives associated with the declared class that specify at least one of a machine role or a user role, and process the at least one input parameter based on the ~~identified~~ appropriate input to output a live object, when the first data structure becomes instantiated into an object.

2. (Currently Amended) The computer readable storage medium of claim 1, wherein the input source comprises a string.

3. (Currently Amended) The computer readable storage medium of claim 2, wherein the string comprises a part of a script.

4. (Currently Amended) The computer readable storage medium of claim 2, wherein the string comprises a part of a command string entered on a command line.

5. (Currently Amended) The computer readable storage medium of claim 1, wherein the parameter definition comprises a data type and a name for the expected input parameter.

6. (Currently Amended) The computer readable storage medium of claim 1, wherein the information comprises a value.

7. (Currently Amended) The computer readable storage medium of claim 6, wherein the parameter definition comprises a data type and a name for the expected input parameter, and wherein the mechanism further coerces the value having a first data type into a converted value having a second data type specified in the definition.

8. (Currently Amended) The computer readable storage medium of claim 1, wherein the input source comprises a set of objects.

9. (Currently Amended) The computer readable storage medium of claim 8, wherein the set of objects comprise .NET objects.

10. (Currently Amended) The computer readable storage medium of claim 1, wherein the input source comprises a precisely parseable stream.

11. (Currently Amended) The computer readable storage medium of claim 10, wherein the precisely parseable stream comprises an XML-based document.

12. (Currently Amended) The computer readable storage medium of claim 1, wherein the mechanism further identifies and populates each input parameter for each record within the input source.

13. (Currently Amended) The computer readable storage medium of claim 1, further comprising a mapping mechanism that is operative to associate a mapped name with the input parameter, wherein identifying the information is based on the mapped name.

14. (Currently Amended) The computer readable storage medium of claim 1, wherein the mechanism comprises a method inherited from a class provided within a runtime environment.

15. (Currently Amended) The computer readable storage medium of claim 1, wherein the data structure is a public class.

16. (Currently Amended) The computer readable storage medium of claim 1, wherein the input parameters are public parameters.

17. (Currently Amended) The computer readable storage medium of claim 1, further comprising a plurality of parameter definitions, each parameter definition corresponding to one of a plurality of input parameters, wherein at least one of the parameter definitions is configured to be indirectly associated with the data structure.

18. (Currently Amended) The computer readable storage medium of claim 17, wherein the indirect association between the at least one of the parameter definitions and the data structure comprises a reference to an XML-based document that enables identification of the corresponding input parameter.

19. (Currently Amended) A computer-executable method for populating parameters declared within a data structure, the method comprising:

obtaining an expected name for a parameter, the expected name being
assigned via a declared property in a declared class ~~declaration for~~
~~the parameter within of~~ a data structure;

identifying a label within an input source correlating to the expected
name, the input source comprising at least one live object;

retrieving a value associated with the label; ~~and~~

assigning the value to the parameter; and

applying one or more declared directives associated with the declared
class of a data structure to the value, the one or more declared
directives being associated with the parameter, wherein the one or
more declared directives are configured to cause an administrative
tool framework to process the parameter.

20. (Original) The method of claim 19, wherein the expected name and the label are identical.

21. (Original) The method of claim 19, further comprising providing mapping information that defines an alias name for the expected name and identifying the label based on the alias name.

22. (Original) The method of claim 21, wherein the input source comprises a command string entered on a command line and the alias name is provided within the command string.

23. (Original) The method of claim 21, wherein the alias name is provided within a data store.

24. (Original) The method of claim 19, wherein the input source comprises an XML document.

25. (Original) The method of claim 19, wherein the input source comprises a database table.

26. (Original) The method of claim 19, wherein the input source comprises a command string entered on a command line.

27. (Original) The method of claim 19, wherein the input source comprises a script.

28. (Currently Amended) A system the handles input parameters, the system comprising:

a means for processing; and

a memory means, the memory means being allocated for a plurality of computer-executable instructions which are loaded into the memory means for execution by the means for processing, the computer-executable instructions performing a method comprising:

a means for obtaining an expected name for a parameter, the expected name being assigned via a declared property in a declared class declaration for the parameter within of a data structure;

a means for identifying a label within an input source correlating to the expected name, the input source comprising at least one live object;

a means for retrieving a value associated with the label; ~~and~~

a means for assigning the value to the parameter; and

a means for applying one or more declared directives associated with the declared class of a data structure to the value, the one or more declared directives being associated with the parameter, wherein the one or more declared directives are configured to cause an administrative tool framework to process the parameter.

29. (Currently Amended) A computer readable storage medium encoded with a data structure that provides a template for creating an application, the data structure comprising:

a name identifying an application that is included in a declared parent class provided by an object-based environment;

at least one member configured to receive one or more sets of input,
wherein each set of input comprises at least one live object; and
a method associated with the one or more sets of input,
wherein the declared parent class is configured to provide processing
that executes the method for each set of input received for the at
least one member when the name of the application is invoked, and
wherein the application comprises a command in a pipeline of
commands, and the set of input comprises results from a previous
command in the pipeline of commands.

30. (Previously Presented) The data structure of claim 29, wherein the at least one member comprises an expected input parameter.

31. (Previously Presented) The data structure of claim 30, wherein the declared parent class further provides validation processing on each set of input for the expected input parameter and does not execute the method for one set of input if the one set fails the validation processing.

32. (Canceled).

33. (Previously Presented) The data structure of claim 29, wherein each set of input includes an identifier that associates the input with the member.

34. (Previously Presented) The data structure of claim 29, wherein the declared parent class further provides a mapping process that allows a specified alias for the identifier.

35. (Currently Amended) The data structure of claim 34, wherein ~~the application comprises a command and~~ the specified alias is provided as an argument to the command when the command is invoked

36. (Currently Amended) The data structure of claim 35, wherein at least one of the command in the pipeline of commands is invoked via an object-based command line environment.

37. (Previously Presented) The method of claim 19, further comprising validating the value and wherein assigning the value to the parameter occurs if the value passes the validation.

38. (Currently Amended) The computer readable storage medium of claim 1, wherein the live object is of a data type having a method, the method being directly invocable when processing the expected input parameter.